Listing of Claims:

1. (Previously Presented) A method for providing dynamic memory management of a memory device, the method comprising:

    providing a first memory block in the memory device;

    storing a startup program in the first memory block;

    providing additional memory blocks; and

    connecting the first memory block and the additional memory blocks by a chained list;

    wherein the memory device is checked before the chained list is executed and the startup program obtains data for a check from the additional memory blocks.

2. (Original) The method of claim 1, wherein the checking is performed using an addition checksum.

3. (Original) The method of claim 1, wherein the checking is performed by a cyclic block backup.

4. (Original) The method of claim 1, wherein the checking is performed at a time of booting a system that includes the first memory block and the additional memory blocks.

5. (Original) The method of claim 1, wherein the checking is performed in the background during operation of a system that includes the first memory block and the additional memory blocks.

6. (Previously Presented) A memory device, comprising:

    a first memory block to store a startup program; and

    additional memory blocks to store data for a check;

    wherein the first memory block and the additional memory blocks are connected by a chained list wherein the memory device is checked before the chained list is executed and the startup program obtains data for a check from the additional memory blocks.

7. (Original) The memory device of claim 6, wherein each of the additional memory blocks includes an information area that stores information on the memory block itself and a checking area that stores information for performing the check.

8. (Previously Presented) A system, comprising:

a computing unit;

a memory device including a first memory block to store a startup program; and

additional memory blocks to store data for a check;

wherein the first memory block and the additional memory blocks are connected by a chained list, wherein the memory device is checked before the chained list is executed and the startup program obtains data for a check from the additional memory blocks.

9. (Original) The system of claim 8, wherein the memory device includes a non-volatile memory module.

10. (Original) The system of claim 8, wherein the computing unit includes an embedded microcontroller.

11. (Canceled)

12. (Previously Presented) A computer-readable storage medium including program code for providing dynamic memory management of a memory device, the program code being executable in a computing arrangement to perform the following:

providing a first memory block in the memory device;

storing a startup program in the first memory block;

providing additional memory blocks; and

connecting the first memory block and the additional memory blocks by a chained list;

wherein the memory device is checked before the chained list is executed and the startup program obtains data for a check from the additional memory blocks.